



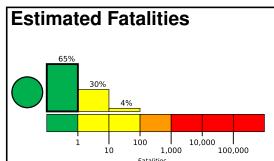


M 4.1, 17 km WSW of Ferndale, CA

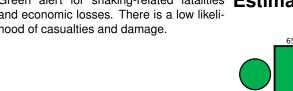
Origin Time: 2023-09-30 17:16:46 UTC (Sat 10:16:46 local) Location: 40.5013° N 124.4774° W Depth: 30.7 km

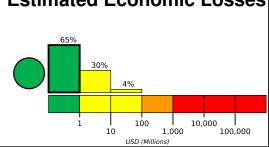
Version 1

Created: 2 weeks, 4 days after earthquake



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.



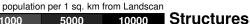


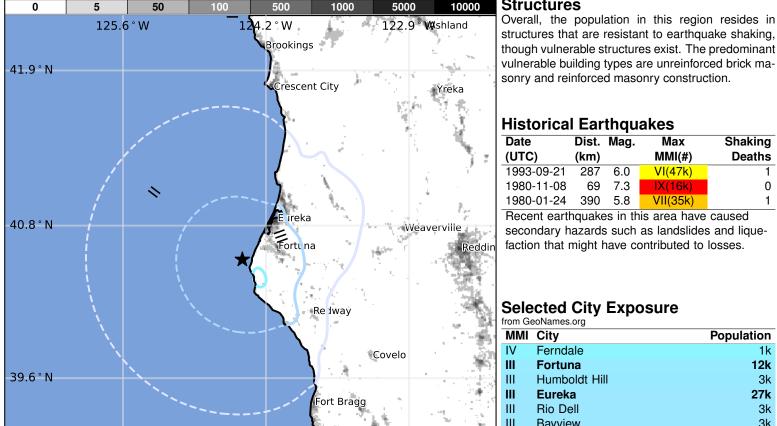
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		579k*	143k	2k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure





Historical Earthquakes

Dist.	Mag.	Max	Shaking	
(km)		MMI(#)	Deaths	
287	6.0	VI(47k)	1	
69	7.3	IX(16k)	0	
390	5.8	VII(35k)	1	
	(km) 287 69	287 6.0 69 7.3	(km) MMI(#) 287 6.0 VI(47k) 69 7.3 IX(16k)	

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

1	from GeoNames.org					
1	MMI	City	Population			
ı	IV	Ferndale	1k			
	Ш	Fortuna	12k			
1 00	Ш	Humboldt Hill	3k			
	Ш	Eureka	27k			
	Ш	Rio Dell	3k			
	Ш	Bayview	3k			
	П	Arcata	17k			
ı	П	Bayside	17k			
į	I	Redding	90k			
	I	Ukiah	16k			

Ashland bold cities appear on map.

(k = x1000)

20k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/nc73943846#pager

Event ID: nc73943846